

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

AUDIT REPORT

Fiscal Year Ended June 30, 2017



State of South Dakota
Department of Legislative Audit
427 South Chapelle
% 500 East Capitol
Pierre, SD 57501-5070

SOUTH DAKOTA SCIENCE & TECHNOLOGY AUTHORITY
AUTHORITY OFFICIALS
June 30, 2017

Board of Directors:

Casey Peterson, Chairman
Dana Dykhouse, Vice-Chairman
Ron Wheeler, Vice-Chairman
Pat Lebrun, Secretary/Treasurer
Dr. Robert Wilson, Member
Dr. Ani Aprahamian, Member
Paul Christen, Member
Dr. Jan Puszynski, Ex-Officio Member

Executive Director:

Michael Headley

Chief Financial Officer:

Nancy Geary

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY
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MARTIN L. GUINDON, CPA
AUDITOR GENERAL

**INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER
FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS
BASED ON AN AUDIT OF FINANCIAL STATEMENTS
PERFORMED IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS**

The Honorable Dennis Daugaard
Governor of South Dakota

and

Board of Directors
South Dakota Science and Technology Authority

We have audited, in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States, the financial statements of the South Dakota Science and Technology Authority (Authority), a business-type activities component unit of the State of South Dakota, as of and for the year ended June 30, 2017, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements and have issued our report thereon dated October 25, 2017.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the Authority's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control. Accordingly, we do not express an opinion on the effectiveness of the Authority's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct misstatements on a timely basis. *A material weakness* is a deficiency, or combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the Authority's financial statements will not be prevented, or detected and corrected on a timely basis. *A significant deficiency* is a deficiency, or combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the Authority's financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standard*.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Authority's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose. As required by South Dakota Codified Law 4-11-11, this report is a matter of public record and its distribution is not limited.

A handwritten signature in black ink, appearing to read "Martin L. Guindon". The signature is fluid and cursive, with the first name "Martin" and last name "Guindon" clearly distinguishable.

Martin L. Guindon, CPA
Auditor General

October 25, 2017



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MARTIN L. GUINDON, CPA
AUDITOR GENERAL

**INDEPENDENT AUDITOR'S REPORT ON COMPLIANCE FOR EACH MAJOR FEDERAL PROGRAM
AND REPORT ON INTERNAL CONTROL OVER COMPLIANCE REQUIRED BY THE UNIFORM
GUIDANCE**

The Honorable Dennis Daugaard
Governor of South Dakota

and

Board of Directors
South Dakota Science and Technology Authority

Report on Compliance for Each Major Federal Program

We have audited the South Dakota Science and Technology Authority's (Authority), a business-type activities component unit of the State of South Dakota, compliance with the types of compliance requirements described in the *U.S. Office of Management and Budget (OMB) Compliance Supplement* that could have a direct and material effect on each of the Authority's major federal programs for the year ended June 30, 2017. The Authority's major federal programs are identified for the State of South Dakota Single Audit and included in the summary of auditor's results section of the accompanying Schedule of Current Audit Findings and Questioned Costs.

Management's Responsibility

Management is responsible for compliance with federal statutes, regulations, contracts, and grants applicable to its federal programs.

Auditor's Responsibility

Our responsibility is to express an opinion on compliance for each of the Authority's major federal programs based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. *Code of Federal Regulations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the Authority's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our opinion on compliance for each major federal program. However, our audit does not provide a legal determination on the Authority's compliance.

Opinion on Each Major Federal Program

In our opinion, the Authority complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2017.

Report on Internal Control Over Compliance

Management of the Authority is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the Authority's internal control over compliance with the types of requirements that could have a direct and material effect on each major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for each major federal program and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the Authority's internal control over compliance.

A deficiency in internal control over compliance exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. *A material weakness in internal control over compliance* is a deficiency, or combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. *A significant deficiency in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Purpose of this Report

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purposes. As required by South Dakota Codified Law 4-11-11, is a matter of public record and its distribution is not limited.



Martin L. Guindon, CPA
Auditor General

October 25, 2017

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY
SCHEDULE OF PRIOR AND CURRENT AUDIT FINDINGS AND QUESTIONED COSTS

SCHEDULE OF PRIOR AUDIT FINDINGS

Prior Federal Audit Findings:

The prior audit report contained no written federal audit findings.

Prior Other Audit Findings:

The prior audit report contained no written other audit findings.

SCHEDULE OF CURRENT AUDIT FINDINGS AND QUESTIONED COSTS

Summary of the Independent Auditor's Results:

Financial Statements

- a. An unmodified opinion was issued on the financial statements.
- b. No material weaknesses or significant deficiencies were disclosed by our audit of the financial statements.
- c. Our audit did not disclose any noncompliance which was material to the financial statements.

Federal Awards

- d. An unmodified opinion was issued on compliance with the requirements applicable to major programs.
- e. Our audit did not disclose any audit findings that are required to be reported in accordance with 2 CFR 200.516(a).
- f. The federal awards tested as major programs were:
 - 1. 81.629760 SURF (Sanford Underground Research Facility) Operations Support
 - 2. 81.630223 SURF (Sanford Underground Research Facility) Ross Shaft Rehab
- h. The dollar threshold used to distinguish between Type A and Type B federal award programs was \$7,000,000 as determined for the State of South Dakota Single Audit for fiscal year 2017.
- i. The South Dakota Science and Technology Authority, as a component unit of the State of South Dakota, did not qualify as a low-risk auditee.

Current Federal Audit Findings:

There are no written current federal compliance audit findings to report.

Current Other Audit Findings:

There are no written current (other) audit findings to report.



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MARTIN L. GUINDON, CPA
AUDITOR GENERAL

INDEPENDENT AUDITOR'S REPORT

The Honorable Dennis Daugaard
Governor of South Dakota

and

Board of Directors
South Dakota Science and Technology Authority

Report on the Financial Statements

We have audited the accompanying financial statements of the South Dakota Science and Technology Authority (Authority), a business-type activities component unit of the State of South Dakota, as of and for the year ended June 30, 2017, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements as listed in the Table of Contents.

Management's Responsibility for the Financial Statements

The Authority's management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal controls relevant to the preparation and fair presentation of financial statements that are free from material misstatements, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Authority's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Authority as of June 30, 2017, and the changes in its financial position and its cash flows for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the Management's Discussion and Analysis (MD&A) on pages 8-15, the Schedule of Proportionate Share of the Net Pension Liability (Asset) on page 33, and the Schedule of Employer Contributions on page 34 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Supplementary Information

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise the Authority's basic financial statements. The Schedule of Operating Expenses and the Schedule of Expenditures of Federal Awards, which is required by Title 2 U.S. *Code of Federal Regulations (CFR) Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance) listed in the Table of Contents are presented for purposes of additional analysis and are not a required part of the basic financial statements. The information is the responsibility of management and were derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated in all material respects in relation to the basic financial statements as a whole.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated October 25, 2017 on our consideration of the Authority's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, grant agreements, and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Authority's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Authority's internal control over financial reporting and compliance.



Martin L. Guindon, CPA
Auditor General

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

MANAGEMENT'S DISCUSSION AND ANALYSIS JUNE 30, 2017

This section of the South Dakota Science and Technology Authority's (Authority) annual financial report presents management's discussion and analysis of the Authority's financial performance during the fiscal year ended June 30, 2017 (FY 2017). This analysis should be read in conjunction with the financial statements and notes to the financial statements.

The Authority's financial statements include the operations of funds that the Authority has established to achieve its goal of converting its acquired Homestake Mine property into an underground science and engineering laboratory. The property was donated to the Authority by Barrick Gold Corporation in May 2006.

The activity of the Authority is accounted for as a proprietary fund type. The Authority is a component unit of the State of South Dakota and its financial statements are included in the Comprehensive Annual Financial Report of the State of South Dakota.

Included in the financial statements presented is a current year comparison to prior year balance sheet summary, revenue and expense summary, and capital assets. Further reports reflect current year detailed statement of net position, statement of revenue, expense and changes in net position, cash flow and schedule of operating expenses, and schedule of expenditures of federal awards. Comparisons of current year to prior year are important to display increases and decreases in various elements of the financial reports for the Authority. Current year detailed reports provide significant detail for statement of net position, revenues, expenses and cash flows for the Authority.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

MANAGEMENT'S DISCUSSION AND ANALYSIS (CONTINUED) JUNE 30, 2017

FINANCIAL HIGHLIGHTS:

- Total assets at year end decreased to \$110,994,820.
- Current Assets decreased by \$2,151,545, primarily due to the expenditure of funds from the cash accounts being held by the State Treasurer on behalf of the Authority. Accounts Receivable as of the June 30, 2017 statement is also lower due to receiving payments on various invoices earlier than usual.
- Capital Assets increased by \$117,873 net of depreciation expense. Page 12 details the major capital asset additions and deletions. Furthermore, page 23 summarizes the changes in capital assets by major categories. Notable increases include the purchase of the Ellison Hill Property which includes land, buildings, and infrastructure as well as additional increases to Improvements in Progress for the LUX/Zeplin facility upgrades. Deletions include various computer equipment that had reached end of life status.
- Net Pension Asset and Xenon Purchased are combined on our Statement of Net Position. Net Pension Asset decreased to zero. The State's retirement system (SDRS) is no longer fully funded (see Note 6 – page 25). The actuarially accrued liability of the fund is more than the assets of the fund. Therefore, for fiscal year 2017 we have a Net Pension Liability. GASB standards allow entities to use a pension measurement date up to one year prior to the entities reporting period. Therefore, the Authority is using a June 30, 2016 pension measurement date for our fiscal year end June 30, 2017 statements. Loans from the South Dakota Community Foundation, University of South Dakota Foundation, and South Dakota State University Foundation have enabled the Authority to purchase xenon to be used in the future LZ experiment. As of June 2017, \$5,040,356 of xenon has been purchased. In summary, the Net Pension Asset and Xenon Purchased has increased by \$1,275,265.
- Deferred Outflows of Resources is also related to our retirement plan with SDRS. The amounts recorded relate to our proportionate share of the differences between expected and actual experience in pension earnings along with the Authority's pension contributions made subsequent to June 30, 2016. The total Deferred Outflows of Resources equals \$4,174,730.
- Total liabilities at year end increased to \$9,434,801, primarily due to the additional liability created by the signing of additional loans with the University of South Dakota Foundation and the South Dakota State University Foundation for additional xenon purchases. \$1,000,000 was received from each foundation. These loans are eleven year, unsecured nonrecourse loans with 2.5% simple interest to be paid quarterly to the lender. The loans will be repaid at the end of the LZ experiment (estimated to be October 2026) from the sale proceeds of the xenon previously purchased. Net Pension Liability is recorded at \$1,698,193 for the Authority's share of the collective net pension liability. Last year's calculation showed the retirement system was 104% funded where this year it is only 96% funded.
- Deferred Inflows of Resources has been reduced to zero for fiscal year 2017. GASB 68 requires that the amount reported as deferred outflows and inflows as they relate to the net difference between the projected and actual earnings on pension plan investments should be netted for reporting purposes. The recorded amounts have been summarized with Deferred Outflows of Resources.
- Total restricted net position decreased to \$15,278,125, partially due to the expenditure of funds received from Mr. Denny Sanford. These funds were expended on the purchase of the Ellison Hill Property as authorized by the Sixth Amendment to the Homestake Gift Agreement. This additional surface property will provide storage and construction material laydown space for the Long-Baseline Neutrino Facility (LBNF) and the Deep Underground Neutrino Experiment (DUNE). Additionally, restricted net position decreased for funds related to pension benefits as well as experiment funding set aside for xenon procurement, the related interest payments for xenon procurement loans, and infrastructure upgrades.
- Unrestricted net position increased to \$5,676,524.
- Total net position at year end decreased to \$105,734,749.
- Charges for Services decreased slightly to \$150,969. Revenue from Homestake decreased due to a decrease in the amount of water being treated and discharged for Homestake.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

MANAGEMENT'S DISCUSSION AND ANALYSIS (CONTINUED) JUNE 30, 2017

FINANCIAL HIGHLIGHTS (Continued)

- Operating Grants increased to \$25,690,909. The revenue received in this classification includes \$17,022,400 received from Fermi National Laboratory, \$8,326,020 from Lawrence Berkeley National Laboratory, and \$342,489 from the SD Governor's Office of Economic Development (GOED) and various smaller universities. As of fiscal year 2017 a larger portion of the Operating Grants funding was received from Fermi National Laboratory rather than Lawrence Berkeley National Laboratory as two contracts for operations support and the Ross Shaft Rehab were transferred to Fermi National Laboratory late in calendar year 2016.
- Capital Grants and Contributions decreased to zero (down \$2,282,782 from the prior year) due to the completion of the Sanford Lab Homestake Visitor Center and the Sanford Science Education Center project at Black Hills State University.
- Other Grants includes \$2,000,000 from GOED for xenon procurement and interest payment expenditures on loan agreements.
- Investment Earnings decreased to \$44,570 compared to \$337,182 in the previous year as average interest rates were lower than the previous year, less funds were being held on behalf of the Authority by the State Investment Council, and decreases to the fair value of securities held.
- Total Program Expenses for the Authority were \$28,755,946 which represents a decrease of 22.74% percent from the previous year. Last year's Program Expenses included the conveyance of the Sanford Lab Homestake Visitor Center to Homestake Visitor Center, Inc. as well as the Sanford Science Education Center project at Black Hills State University which resulted in \$7,344,210 of expense. Furthermore, last year's expenditures included an additional \$2,500,000 which was repurposed from the Indemnification Fund for the Authority to provide initial capital and pay liability coverage expenses associated with a newly formed Captive Insurance Company. This year's expenses include just \$31,355 for additional small items conveyed to the Homestake Visitor Center, Inc. Also included in Total Program Expenses are Operating Expenses which increased by \$1,475,128 to \$28,635,307. Of the total expenses in this category, the major expenses were personal services – 47.8 percent, contractual services – 35.3 percent, and supplies, materials, and other operating expenses – 8.93 percent. The majority of the increase in Operating Expenses is a result of transferring the Ross Rehab costs to a subcontract with LBNL (federal funds through the Department of Energy) as of January 2016. The fiscal year 2016 program expenses only included one half year of Ross Rehab expenses where fiscal year 2017 included a full year of expenses. Prior to January 2016, the costs were being covered by Sanford funds and State funds.
- Net position decreased by \$725,449 for fiscal year 2017.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

MANAGEMENT'S DISCUSSION AND ANALYSIS (CONTINUED)
JUNE 30, 2017

FINANCIAL STATEMENT ELEMENTS:

NET POSITION

	2017	2016	Dollar Change	Percent Change
Current Assets	\$ 20,967,962	\$ 23,119,507	\$ (2,151,545)	-9.31%
Capital Assets	84,986,502	84,868,629	117,873	0.14%
Net Pension Asset and Xenon Purchased	5,040,356	3,765,091	1,275,265	33.87%
Total Assets	110,994,820	111,753,227	(758,407)	-0.68%
Pension Related Deferred Outflows	4,174,730	4,129,426	45,304	1.10%
Net Pension Liability	1,698,193	-	1,698,193	100.00%
Long-Term Liabilities Outstanding	4,512,117	2,602,661	1,909,456	73.37%
Other Liabilities	3,224,491	3,634,992	(410,501)	-11.29%
Total Liabilities	9,434,801	6,237,653	3,197,148	51.26%
Pension Related Deferred Inflows	-	3,184,802	(3,184,802)	-100.00%
Net Position:				
Net Investment in Capital Assets	84,780,100	84,524,475	255,625	0.30%
Restricted	15,278,125	18,208,604	(2,930,479)	-16.09%
Unrestricted	5,676,524	3,727,119	1,949,405	52.30%
Total Net Position	\$ 105,734,749	\$ 106,460,198	\$ (725,449)	-0.68%

CHANGE IN NET POSITION

	2017	2016	Dollar Change	Percent Change
Revenues				
Program Revenues:				
Charges for Services	\$ 150,969	\$ 247,502	\$ (96,533)	-39.00%
Operating Grants	25,690,909	24,889,116	801,793	3.22%
Miscellaneous	144,049	72,291	71,758	99.26%
Capital Grants and Contributions	-	2,282,782	(2,282,782)	-100.00%
Other Grant Revenue	2,000,000	2,000,000	-	0.00%
General Revenues:				
Investment Earnings	44,570	337,182	(292,612)	-86.78%
Total Revenue	28,030,497	29,828,873	(1,798,376)	-6.03%
Program Expenses:				
Science and Technology Authority	28,755,946	37,220,226	(8,464,280)	-22.74%
Total Expense	28,755,946	37,220,226	(8,464,280)	-22.74%
Change in Net Position	(725,449)	(7,391,353)	6,665,905	-90.19%
Net Position-Beginning	106,460,198	113,851,551	(7,391,354)	-6.49%
Net Position-Ending	\$ 105,734,749	\$ 106,460,198	\$ (725,449)	-0.68%

By June 30, 2017, the Authority had invested \$84,986,502 in a broad range of capital assets, including computer equipment, land, buildings, improvements to infrastructure and the underground, and various machinery and equipment. \$20,551,152 of this \$84,986,502 (approximately 24% of this total value) was donated by Barrick Gold. This amount represents a net decrease (including additions and deductions) of \$117,873, or .14 percent, over the last year.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

MANAGEMENT'S DISCUSSION AND ANALYSIS (CONTINUED)

JUNE 30, 2017

CAPITAL ASSETS (Net of Depreciation)

	2017	2016	Change
Improvements	\$ 31,043,734	\$ 31,977,971	\$ (934,237)
Underground	17,936,956	17,767,956	169,000
Buildings	5,751,477	5,615,700	135,777
Computer Equipment	124,464	76,686	47,778
Equipment	6,714,078	7,056,723	(342,645)
Construction in Progress	19,797,453	19,258,934	538,519
Land	1,814,136	1,579,298	234,838
Infrastructure	1,665,601	1,408,819	256,782
Furniture	29,962	34,952	(4,990)
Archive Material	70,000	70,000	-
Auto	38,641	21,590	17,051
Total Capital Assets	\$ 84,986,502	\$ 84,868,629	\$ 117,873

This year's major capital asset additions and deletions included:

Purchased Capital Assets:

Ellison Hill Property	\$ 234,838
Ellison Hill Buildings	282,000
Chevy 2011 3500 Stake Bed Truck	22,657
Snow Plow	6,594
Milliken Plug Valves	15,777
McCrometer MagFlo Meter	6,980
Radon Removal System	421,974
Atlas Copco Air Compressor and Air Dryer	33,725
RO Water System	49,328
FCU-1 Fan	7,557
Computer Equipment - Router, Backup Servers, Firewalls	79,473

Infrastructure Additions:

Ellison Hill Gravel and Paved Road	38,951
Water Inflow Phase I and Pipe Fusion	261,669

Improvements (Current Year Additions):

Davis Campus Insulation	45,637
Yates Tunnel Improvements	169,000

Improvements in Progress (Current Year Additions):

CASPAR Experiment Development	76,664
Ellison Hill Building Asbestos Assess./Abatement	26,379
LUX/Zeplin Facility Upgrades	823,146

Computer Equipment (Current Year Deletions)

Router, Backup Servers, Firewalls	(106,106)
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SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

MANAGEMENT'S DISCUSSION AND ANALYSIS (CONTINUED)

JUNE 30, 2017

LONG-TERM DEBT

At the year-end, the Authority had \$4,512,117 in other long-term obligations. This is an increase of 73.37 percent as shown below.

	2017	2016	Total Dollar Change	Total Percentage Change
Compensated Absences	\$ 495,921	\$ 443,101	\$ 52,820	11.92%
Capital Acquisition Lease	16,196	159,560	(143,364)	-89.85%
Xenon Notes Payable	4,000,000	2,000,000	2,000,000	100.00%
Total Long-Term Debt	\$ 4,512,117	\$ 2,602,661	\$ 1,909,456	73.37%

- (1) The Authority is liable for the accrued vacation leave payable to all full-time employees. In addition, the Authority is liable for a portion of the earned sick leave of employees who have been employed for seven consecutive years. The \$52,820 increase in compensated absences is due to an increase in the corresponding amount of leave accumulated and outstanding at the end of the year for various employees. Included in the increase is the xenon notes payable to South Dakota Community Foundation, University of South Dakota Foundation, and South Dakota State University Foundation. Note (4) Long-Term Debt in the Notes to Financial Statements on page 24 details compensated absences, capital lease and the xenon note payable.

ECONOMIC FACTORS

- A report released from the Particle Physics Project Prioritization Panel (P5) in May 2014, outlined the 10-year strategic plan for high-energy physics in the United States. The report provides strong support for science programs envisioned for the Sanford Underground Research Facility (SURF) including research into neutrinos and dark matter, both of which are being researched at Sanford Lab. This panel formally advises both the DOE Office of Science and the National Science Foundation (NSF) on support for physics. We expect this report to play a key role in the federal government funding process for years to come. The Authority is better positioned to receive continued funding for Operations in the future.
- The Authority's Board of Directors approved a capital budget for fiscal year 2017 of \$6,872,095 towards the experiment development for the Compact Accelerator System for Performing Astrophysical Research (CASPAR), as well as xenon procurement for the LZ experiment and upgrades to surface and underground facilities for the future G2-LZ (Generation 2 LUX-Zeplin) experiment. A contract with Dean Kurtz Construction was signed in August 2016 for \$789,466 for upgrades to the surface science lab and the construction of a new radon removal building. With additional change orders, the contract amount was increased to \$843,654. Both projects were substantially completed in fiscal year 2017. Additional projects included the purchase of the Ellison Hill property and Ellison Hill building asbestos abatement. Actual expenditures for the year totaled \$5,478,779. Actual expenses were lower than budgeted as not all projects are complete. Funding for the balance of these projects had been designated primarily from the Sanford funds including a portion of Gift No. 2. Funding for xenon procurement and the upgrades for the LZ experiment was secured with the signing of Letter Agreement #1586 in August 2015 with the Governor's Office of Economic Development (GOED) and through separate funding from Foundations. The total funding of \$6,000,000 has been received from GOED as well as \$4,000,000 from the Foundations. The final \$2,000,000 from Foundations will be received in 2018. Additional details can be found on page 15.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

MANAGEMENT'S DISCUSSION AND ANALYSIS (CONTINUED)

JUNE 30, 2017

ECONOMIC FACTORS (Continued)

- The operations contract with Lawrence Berkeley National Laboratory (LBNL) has transitioned to Fermi National Accelerator Laboratory (FNAL) as of October, 2016. With various modifications to Subcontract No. 629760 we currently have a budget of \$14,748,459 to manage and operate the facility through September 30, 2017. Actual expenditures were \$12,577,323 through August 2017. Negotiations are underway to extend this contract through June 2018 with additional funding until we are able to negotiate a long-term contract with (FNAL).
- Further funding was received in fiscal year 2017 through LBNL in support of various small projects including the LUX (Large Underground Xenon) experiment. This award reimbursed the Authority for expenses incurred in support of the LUX for various materials and supplies as well as a percentage of the salaries of the Design Team members for their project management skills essential to the work being performed. Other small subcontracts supplied further funding to the Authority. Included was support for the LZ (LUX-Zeplin) investigations. Additional funding was received through LBNL for the Ross Shaft rehabilitation project as well as another small drilling project labeled KISMET. As of mid-December, 2016 the Ross Shaft rehabilitation project transitioned to Fermi National Accelerator Laboratory (FNAL) with the signing of Subcontract No. 630223. This funding will continue with FNAL until the project is complete.
- In late 2012, the DOE approved the Long Baseline Neutrino Experiment (LBNE) to proceed with preliminary designs to construct a large detector at SURF. In October 2014, the United States along with international partners agreed that the Sanford Lab was to remain the host for the LBNE related detectors. After further meetings, the LBNE collaboration officially dissolved and transferred all responsibilities to a new collaboration referred to as the Long Baseline Neutrino Facility (LBNF) consisting of United States and International support. The LBNF and the associated Deep Underground Neutrino Experiment (DUNE) will send neutrinos through the earth from Fermilab in Batavia, Illinois to SURF in Lead, SD. More recent developments (September 2016) involve the DOE formally approving plans for construction of the first two large underground caverns at SURF for DUNE. The first step of installing the systems to transport hundreds of thousands of tons of rock to the surface will begin in 2017. The excavation for the three caverns to house the neutrino detectors and related utilities is expected to begin in the fall of 2018. Contracts have been executed with Fermi National Accelerator Laboratory (FNAL) for these efforts. Funds were received for professional engineering management services for design and construction. Other contracts added support for Phase 2 - Geotechnical Exploration for LBNE. Additional support was received for Excavation Preliminary and Final Design, Building/Site Infrastructure, as well as funding for a tramway excavation, pipe conveyor support, and surface rock handling through final design. DOE support for professional engineering management services continues into fiscal year 2017 for the LBNF project but the large Excavation – Final Design and Building/Site Infrastructure contracts will be held directly by FNAL with the design firm. Thus, these design contracts have come to an end for the Authority. In late September 2017, the United States entered into a historic bilateral agreement with the United Kingdom establishing a foundation for enhanced research partnerships to further world-class science. The United Kingdom has committed \$88 million to LBNF and DUNE.
- Additional funding was received during the fiscal year from various institutions including Oak Ridge National Laboratory, Northwestern University, South Dakota Schools of Mines & Technology, and Black Hills State University. Funds were received at SURF to support the Majorana experiment located at the 4850-foot level Davis Campus, as well as various other experiments on the underground levels. Support continues in fiscal year 2018 from these various universities except Northwestern University that has completed their project.
- A Memorandum of Understanding (MOU) was signed in November 2014 between the Authority and a commercial organization – Xilinx, Inc. to establish an experiment located near the Davis Campus. Their testing measures failure rates and modes in electronic chips. We are charging them for lab space, experiment access fees, and SURF scientific support. This agreement will continue into fiscal year 2018.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

MANAGEMENT'S DISCUSSION AND ANALYSIS (CONCLUDED) JUNE 30, 2017

ECONOMIC FACTORS (Continued)

- The Authority's fiscal year 2018 capital budget provides for spending \$4,677,160. Projects include concluding the CASPAR experiment development, finalizing the Authority's support for the surface and underground upgrades for the future G2-LZ (Generation 2 LUX-Zeplin) experiment that will be located in the Davis Campus, procurement of xenon for the LZ experiment, as well as asbestos abatement for the newly acquired Ellison Hill property. Funding for the LZ projects will be facilitated through a letter agreement with the Governor's Office of Economic Development (GOED) for \$6,000,000 along with loan agreements for \$6,000,000 from state foundations. Agreements have been signed with the South Dakota Community Foundation, South Dakota State University Foundation, and University of South Dakota Foundation for \$2,000,000 each to be used towards the purchase of xenon. The Authority's Board of Directors also approved a budget of \$537,922 in favor of Authority supported activities.
- A Letter Agreement dated February 24, 2014 between the Authority and Black Hills State University (BHSU) provides up to \$300,000 per year for three years from the Authority to BHSU to administer the Sanford Science Education Center. Matching funds of \$150,000 per year by BHSU is documented. An amended agreement dated June 6, 2017 commits an additional \$275,000 toward education and outreach priorities for the period July 2017 – June 2018. Funding for this agreement originated from a Letter Agreement #1524 between the SD Governor's Office of Economic Development (GOED) and the Authority. The full period of performance extends from June 2014 through May 2017. The first \$300,000 from the Governor's office was received in September 2014 and was extended to BHSU on a reimbursement schedule. Years two and three funding of \$300,000 and \$250,000 were received from GOED. The balance of year three funding of \$50,000 was received in June of 2017. Additional support of \$125,000 per year for four years for education programs was received from Great Plains Education Foundation. Funding will be received upon sending documented support of achievements.
- The Authority is compliant with all legal and environmental regulations.

CONTACTING THE AUTHORITY'S FINANCIAL MANAGEMENT

This financial report is designed to provide our citizens, taxpayers, customers, and investors and creditors with a general overview of the Authority's finances and to demonstrate the Authority's accountability for the money it receives. If you have any questions about this report or need additional information, contact the South Dakota Science and Technology Authority, 630 East Summit Street, Lead, SD 57754.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

**STATEMENT OF NET POSITION
JUNE 30, 2017**

ASSETS

Current Assets

Cash in Local Bank and Petty Cash	\$ 1,826,821
Cash on Deposit with State Treasurer	14,187,504
Accounts Receivable	1,878,813
Interest Receivable	46,464
Prepaid Expenses	587,902
Inventory of Supplies & Warehouse	2,440,458
Total Current Assets	20,967,962

Noncurrent Assets

Xenon Purchased	5,040,356
Land	1,814,136
Underground	17,936,956
Improvements in Progress	19,797,453
Buildings, Machinery, Equipment and Infrastructure (Net) (Note 3)	45,437,957
Total Noncurrent Assets	90,026,858

TOTAL ASSETS **110,994,820**

Deferred Outflows of Resources

Pension Related Deferred Outflows	4,174,730
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LIABILITIES

Current Liabilities

Accounts Payable	2,066,947
Accrued Wages and Benefits	471,416
Accrued Leave, Benefits, and Capital Acquisition Lease (Note 4)	686,128
Total Current Liabilities	3,224,491

Long-Term Liabilities

Net Pension Liability	1,698,193
Accrued Leave, Benefits, and Capital Acquisition Lease Net of Current Portion (Note 4)	512,117
Long-Term Xenon Notes Payable (Note 4)	4,000,000
Total Long-Term Liabilities	6,210,310

TOTAL LIABILITIES **9,434,801**

NET POSITION

Invested in Capital Assets	84,780,100
Restricted for:	
Mine Closure	1,411,988
Experiments	3,426,222
Indemnification	7,500,000
Sanford Center for Science Education	463,378
Pension	2,476,537
Unrestricted Net Position	5,676,524

TOTAL NET POSITION **\$ 105,734,749**

The accompanying notes are an integral part of this statement.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

**STATEMENT OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION
FOR THE YEAR ENDED JUNE 30, 2017**

Operating Revenue	
Charges for Goods and Services	\$ 150,969
Operating Grants	25,690,909
Miscellaneous	144,049
Total Operating Revenue	25,985,927
Operating Expenses	
Personal Services	13,693,652
Travel	182,579
Contractual Services	10,098,945
Supplies, Materials and Other Operating Expenses	2,564,493
Amortization Expense	137,752
Depreciation Expense	1,957,886
Total Operating Expenses	28,635,307
Operating Loss	(2,649,380)
Nonoperating Revenues/Expenses	
Grant Revenue	2,000,000
Interest Revenue	44,570
Other Expense	(120,639)
Total Nonoperating Revenues/Expenses	1,923,931
Change in Net Position	(725,449)
Net Position -- Beginning of Year	106,460,198
Net Position -- End of Year	\$ 105,734,749

The accompanying notes are an integral part of this statement.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

**STATEMENT OF CASH FLOWS
FOR THE YEAR ENDED JUNE 30, 2017**

Cash Flows from Operating Activities:

Other Operating Cash Receipts	\$ 323,274
Cash Receipts from Operating Grants	27,583,372
Cash Payments to Employees for Services	(12,958,628)
Cash Payments to Suppliers of Goods and Services	(13,714,519)
Net Cash Provided by Operating Activities	1,233,499

Cash Flows from Noncapital Financing Activities:

Grant Revenue	2,000,000
Proceeds from Xenon Notes Payable	2,000,000
Xenon Purchases	(2,630,135)
Interest/Insurance Paid on Xenon	(59,282)
Grants & Donations Paid	(31,355)
Net Cash Provided by Noncapital Financing Activities	1,279,228

Cash Flows from Capital and Related Financing Activities:

Purchase of Capital Assets	(2,783,767)
Principal Paid on Capital Debt	(137,752)
Interest Paid on Capital Debt	(8,498)
Net Cash Used in Capital and Related Financing Activities	(2,930,017)

Cash Flows from Investing Activities:

Interest Earnings	38,354
Net Cash Provided by Investing Activities	38,354

Net decrease in Cash and Cash Equivalents **(378,936)**

Cash and Cash Equivalents at Beginning of Year 16,393,262

Cash and Cash Equivalents at End of Year **\$ 16,014,326**

Reconciliation of Operating Loss to Net Cash Provided by Operating Activities:

Operating Loss	\$ (2,649,380)
<i>Adjustments to Reconcile Operating Loss to Net Cash Provided by Operating Activities:</i>	
Depreciation & Amortization Expense	2,095,638
Change in Assets and Liabilities:	
Receivables	1,920,719
Prepaid Expenses	(152,176)
Inventory of Supplies	2,447
Net Pension Asset	2,158,428
Decrease(Increase) in Deferred Outflow of Resources - Pension	(45,304)
Increase (Decrease) Deferred Inflow of Resources - Pension	(3,184,802)
Accounts and Other Payables	(718,773)
Net Pension Liability	1,698,193
Accrued Wages Payable	2,868
Accrued Leave Payable	105,641
Net Cash Provided by Operating Activities	\$ 1,233,499

Continued on next page.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

**STATEMENT OF CASH FLOWS (CONTINUED)
FOR THE YEAR ENDED JUNE 30, 2017**

Cash and Cash Equivalents:

Cash in Local Bank	\$ 1,826,771
Petty Cash	50
Cash with State Treasurer	14,187,504
Total Cash and Cash Equivalents	\$ 16,014,325

Non-Cash Capital and Related Financing Activities:

Loss on Disposal of Assets	\$ 1,169
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The accompanying notes are an integral part of this statement.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

NOTES TO FINANCIAL STATEMENTS JUNE 30, 2017

(1) Summary of Significant Accounting Policies

a. Reporting Entity

The South Dakota Science and Technology Authority (Authority) was created and organized by Chapter 1-16H of the South Dakota Codified Laws. The purposes of the Authority are to foster and facilitate scientific and technology investigation, experimentation, and development by creating a mechanism through which laboratory, experimental and development facilities may be acquired, developed, constructed, maintained, operated, and decommissioned. The initial focus of the Authority is to support the transfer of the Homestake Gold Mine in Lead, South Dakota for development by the research community to become the world's premier Underground Science and Engineering Laboratory; more specifically, the Sanford Underground Research Facility (SURF). Additional focus is maintained by the Authority for an education and outreach program detailing the progress.

The Authority is a business type component unit of the State of South Dakota (the State). As such, the accompanying financial statements are included in the Comprehensive Annual Financial Report of the State of South Dakota.

b. Fund Accounting

The Authority Fund is accounted for as an enterprise fund. Enterprise funds are used to account for operations (a) that are financed and operated in a manner similar to private business enterprises, where the intent of the governing body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a continuing basis be financed or recovered primarily through user charges; or (b) where the governing body has decided that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance, public policy, management control, accountability, or other purposes.

c. Basis of Accounting

The Authority Fund follows the accrual basis of accounting. Revenues are recognized when they are earned, and expenses are recognized when they are incurred.

d. Inventory of Supplies

Inventory of supplies consists primarily of expendable equipment/supplies, donated and purchased, not yet in service. Donated inventory of supplies are valued at their estimated fair value on date of donation. Purchased equipment values are reported at cost. Reported cost values include ancillary charges necessary to place the asset into its intended location and condition for use at a later date.

e. Capital Assets

Capital assets include land, buildings, machinery and equipment, and all other tangible or intangible assets that are used in operations and that have initial useful lives extending beyond a single reporting period. Infrastructure assets are long-lived capital assets that normally are stationary in nature and normally can be preserved for a significantly greater number of years than most capital assets.

Capital assets are recorded at historical cost. Donated capital assets are valued at their estimated fair value on the date donated. Reported cost values include ancillary charges necessary to place the asset into its intended location and condition for use. Subsequent to initial capitalization, improvements or betterments that are significant and which extend the useful life of a capital asset are also capitalized.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

NOTES TO FINANCIAL STATEMENTS (CONTINUED) JUNE 30, 2017

(1) Summary of Significant Accounting Policies (Continued)

e. Capital Assets (Continued)

Depreciation of all exhaustible capital assets is recorded as an expense in the Statement of Revenues, Expenses, and Changes in Net Position, with net capital assets reflected in the Statement of Net Position. Accumulated depreciation is reported on the Statement of Net Position.

Capitalization thresholds (the dollar values above which asset acquisitions are added to the capital asset accounts), depreciation methods, and estimated useful lives of capital assets reported in the Authority's financial statements are as follows:

	Capitalization Threshold	Depreciation Method	Estimated Useful Life
Land and Land Rights	All Land	N/A	N/A
Improvements	\$ 5,000	Straight-line	10-50 yrs.
Infrastructure	5,000	Straight-line	25-50 yrs.
Buildings	5,000	Straight-line	25-50 yrs.
Automobiles, Furniture, Machinery and Equipment	5,000	Straight-line	5-75 yrs.

f. Revenue and Expense Classifications

In the Statement of Revenues, Expenses, and Changes in Net Position, revenues and expenses are classified in a manner consistent with how they are classified in the Statement of Cash Flows. That is, transactions for which related cash flows are reported as capital and related financing activities, non-capital financing activities, or investing activities are not reported as components of operating revenue or expenses. The Authority's proprietary fund distinguishes between operating and non-operating revenues and expenses. Operating revenues and expenses of the Authority consist of reimbursement of the costs of operations from Homestake Mining Company and other entities, and the costs of providing those services, including depreciation. All other revenues and expenses are reported as non-operating.

g. Cash and Cash Equivalents

Cash includes cash on hand, demand deposits, and participating interest in the State's internal investment pool held by the State Treasurer. The amount held in the State's internal investment pool is reported at fair value. The Authority essentially has access to the entire amount of their cash resources on demand. Accordingly, equity in the cash management pool is considered to be cash and cash equivalents for the purpose of the Statement of Cash Flows.

h. Equity Classifications

Equity is classified as net position and is displayed in three components:

1. Net investment in capital assets, consists of capital assets, including restricted capital assets, net of accumulated depreciation (if applicable) and reduced by the outstanding balances of any bonds, mortgages, notes, or other borrowings that are attributable to the acquisition, construction, or improvements of those assets.
2. Restricted net position, consists of net position with constraints placed on their use either by (a) external groups such as creditors, grantors, contributors, or laws and regulations of other governments; or (b) law through constitutional provisions or enabling legislation.
3. Unrestricted net position, all other net position that do not meet the definition of "restricted" or "net investment in capital assets."

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

NOTES TO FINANCIAL STATEMENTS (CONTINUED) JUNE 30, 2017

(1) Summary of Significant Accounting Policies (Concluded)

i. Application of Net Position

It is the Authority's policy to first use restricted net position, prior to the use of unrestricted net position, when an expense is incurred for purposes for which both restricted and unrestricted net position are available.

j. Accrued Leave

Compensated absences consist of vacation and sick leave earned. The vacation leave is earned by full-time employees at the rate of 4.62 hours per pay period, increasing to 6.16 hours per pay period after 15 years of service. The vacation leave may accumulate only to a maximum of twice the annual accrual. Upon retirement or resignation, only full-time employees with 180 days of continuous service will be paid for accumulated vacation leave. Sick leave is earned at the rate of 4.32 hours per pay period. Upon termination, some employees are entitled to receive compensation for a portion of their sick leave balance. Those with seven years of service or more will receive compensation at the rate of 25 percent of their balance up to a maximum of 480 hours.

k. Pensions

For purposes of measuring the net pension liability (asset), deferred outflows of resources and deferred inflows of resources related to pensions, and pension expense (revenue), information about the fiduciary net position of the South Dakota Retirement System (SDRS) and additions to/deletions from SDRS's fiduciary net position have been determined on the same basis as they are reported by SDRS. The Authorities contributions and net pension liability (asset) are recognized on an accrual basis of accounting.

(2) Deposits and Investments

Deposits

The majority of the Authority's cash is on deposit with the State Treasurer. Such funds are invested through the South Dakota Investment Council. Management of the State's internal investment pool is the statutory responsibility of the South Dakota Investment Council (SDIC). The investment policy and required risk disclosures for the State's internal investment pool are presented in the audit report of the South Dakota Investment Council, which can be obtained by contacting the Department of Legislative Audit, 427 South Chapelle, c/o 500 East Capitol, Pierre, South Dakota 57501.

Custodial credit risk is the risk that in the event of a bank failure, the Authority's deposits may not be returned to it. The Authority does not have a deposit policy for custodial credit risk. None of the Authority's deposits were exposed to custodial credit risk.

Investments

In general, SDCL 1-16H-18 permits funds to be invested in (a) direct obligations of, or obligations the principal of the interest on which are fully guaranteed or insured by, the United States of America; or (b) obligations of any solvent insurance company or other corporation or business entity if rated in the two highest classifications established by a standard rating service or insurance companies or a nationally recognized rating agency; or (c) short term discount obligations of the Federal National Mortgage Association; or (d) obligations of any state of the United States or any political subdivision, public instrumentality, or public authority of any state of the United States, which obligations are not callable before the principal is to be paid, are fully secured as to both sufficiency and timely payment by, and payable solely from, obligations described in (a). The Authority did not have any investments as of June 30, 2017.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

NOTES TO FINANCIAL STATEMENTS (CONTINUED)
JUNE 30, 2017

(3) Changes in Capital Assets

A summary of changes in capital assets for the year ended June 30, 2017 is as follows:

	Balance June 30, 2016	Reclassified*	Increases	Decreases	Balance June 30, 2017
Business-Type Activities:					
Capital Assets, not Being Depreciated:					
Land	\$ 1,579,298	\$ -	\$ 234,838	\$ -	\$ 1,814,136
Underground	17,767,956	-	169,000	-	17,936,956
Archive Materials	70,000	-	-	-	70,000
Construction Work in Progress (Note 8)	19,258,934	(387,670)	926,189	-	19,797,453
Total Capital Assets, not Being Depreciated	38,676,188	(387,670)	1,330,027	-	39,618,545
Capital Assets, Being Depreciated:					
Equipment Under Capital Lease	883,945	-	-	-	883,945
Automobiles	86,305	-	22,657	-	108,962
Buildings	7,223,086	-	282,000	-	7,505,086
Furniture	74,212	-	-	-	74,212
Computer Equipment	461,417	-	79,473	106,106	434,784
Improvements	37,006,542	-	45,637	-	37,052,179
Infrastructure	1,658,242	209,828	90,792	-	1,958,862
Machinery and Equipment	10,368,447	177,842	364,093	10,817	10,899,565
Total Capital Assets, Being Depreciated	57,762,196	387,670	884,652	116,923	58,917,595
Total Capital Assets, Before Depreciation	96,438,384	-	2,214,679	116,923	98,536,140
Less Accumulated Depreciation:					
Equipment Under Capital Lease	539,791	-	137,752	-	677,543
Automobiles	64,715	-	5,606	-	70,321
Buildings	1,607,386	-	146,223	-	1,753,609
Computer Equipment	384,731	-	31,695	106,106	310,320
Furniture	39,260	-	4,990	-	44,250
Improvements	5,028,571	-	979,874	-	6,008,445
Infrastructure	249,423	-	43,838	-	293,261
Machinery and Equipment	3,655,878	-	745,659	9,648	4,391,889
Total Accumulated Depreciation	11,569,755	-	2,095,637	115,754	13,549,638
Capital Assets, Net	\$ 84,868,629	\$ -	\$ 119,042	\$ 1,169	\$ 84,986,502

*Reclassifications are due to the Authority performing analysis of assets that were previously grouped in construction work in progress. Various items were transferred to equipment and infrastructure and placed in service as of June 30, 2017.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

NOTES TO FINANCIAL STATEMENTS (CONTINUED)
JUNE 30, 2017

(4) Long-Term Debt

A summary of changes in long-term debt follows:

	Beginning Balance	Additions	Deletions	Ending Balance	Due Within One Year
Accrued Compensated Absences	\$ 886,202	\$ 635,894	\$ 530,253	\$ 991,843	\$ 495,922
Xenon Notes Payable	2,000,000	2,000,000	-	4,000,000	-
Capital Acquisition Lease	344,154	-	137,752	206,402	190,206
	<u>\$ 3,230,356</u>	<u>\$ 2,635,894</u>	<u>\$ 668,005</u>	<u>\$ 5,198,245</u>	<u>\$ 686,128</u>

Xenon Notes Payable

Loan Agreements with S.D. Community Foundation (SDCF), S.D. State University Foundation (SDSUF), and University of S.D. Foundation (USDF) to purchase xenon. The loans are 11 year, unsecured non recourse loans with 2.5% simple interest paid quarterly. The SDCF note is due on October 1, 2026. The SDSUF and USDF notes are due December 1, 2026. Also see Note 8.

\$ 4,000,000

Capital Acquisition Lease

The Authority leases a deep level pump system from AmWest, Inc. - Hydro Resources. The lease is due in monthly installments of \$35,000 per month tentatively through July 31, 2018 . The Interest Rate is 4%. Also see Note 8.

\$ 206,402

This lease meets the criteria to be called a capital lease; however, since the payments on this lease are funded under the Department of Energy contract through Lawrence Berkeley National Laboratory (LBNL), title will actually vest with LBNL rather than with the Authority. Because this meets the definition of a capital lease, the Authority has recorded the related asset and liability. The asset is being fully depreciated over the term of the lease and will be removed from the books at the end of the lease.

The annual requirements to amortize long-term debt outstanding as of June 30, 2017, are as follows:

	Capital Acquisition Lease		Xenon Notes Payable		Totals	
	Interest	Principal	Interest	Principal	Interest	Principal
2018	\$ 4,794	\$ 190,206	\$ 100,000	\$ -	\$ 104,794	\$ 190,206
2019	54	16,196	100,000	-	100,054	16,196
2020	-	-	100,000	-	100,000	-
2021	-	-	100,000	-	100,000	-
2022	-	-	100,000	-	100,000	-
2023-2027	-	-	437,500	4,000,000	437,500	4,000,000
Total	<u>\$ 4,848</u>	<u>\$ 206,402</u>	<u>\$ 937,500</u>	<u>\$ 4,000,000</u>	<u>\$ 942,348</u>	<u>\$ 4,206,402</u>

Total cost and accumulated amortization for the capital lease is as follows:

Gross amount of assets under capital lease	\$ 883,945
Accumulated amortization	<u>677,543</u>
	<u>\$ 206,402</u>

The purchase price at the commencement of the financing (capital acquisition) lease was:

Principal	\$ 883,945
Interest	<u>91,055</u>
Total	<u>\$ 975,000</u>

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

NOTES TO FINANCIAL STATEMENTS (CONTINUED)
JUNE 30, 2017

(5) Xenon Purchased

Xenon purchased is valued at a cost per liter with additional freight, customs, and analysis charges. Total xenon purchased to date is \$5,040,356 as shown by the detail below.

<u>Fiscal Year</u>	<u># of Liters</u>	<u>Total Cost</u>	<u>Average Cost/Liter</u>
2014	20,000	\$ 332,855	\$16.64/liter
2016	200,000	1,273,808	6.37/liter
2017	600,295	3,433,693	5.72/liter
Total Purchased	820,295	\$ 5,040,356	\$ 6.14/liter

(6) Retirement/Pension Plan

Plan Information:

All employees, working more than 20 hours per week during the year, participate in the South Dakota Retirement System (SDRS), a cost sharing, multiple employer defined benefit pension plan administered by SDRS to provide retirement benefits for employees of the State of South Dakota and its political subdivisions. The SDRS provides retirement, disability, and survivors' benefits. The right to receive retirement benefits vests after three years of credited service. Authority for establishing, administering and amending plan provisions are found in SDCL 3-12. The SDRS issues a publicly available financial report that includes financial statements and required supplementary information. That report may be obtained at <http://www.sdrs.sd.gov/publications/> or by writing to the SDRS, P.O. Box 1098, Pierre, SD 57501-1098 or by calling (605) 773-3731.

Benefits Provided:

SDRS has three different classes of employees, Class A, Class B public safety and Class B judicial. Class A retirement benefits are determined as 1.7 percent prior to 2008 and 1.55 percent thereafter of the employee's final 3-year average compensation times the employee's years of service. Employees with 3 years of service are eligible to retire at age 55. Class B public safety benefits are determined as 2.4 percent for service prior to 2008 and 2.0 percent thereafter of employee final average compensation. Class B judicial benefits are determined as 3.733 percent for service prior to 2008 and 3.333 percent thereafter of employee final average compensation. All Class B employees with 3 years of service are eligible to retire at age 45. Employees are eligible for service-related disability benefits regardless of length of service. Three years of service is required for nonservice-related disability eligibility. Disability benefits are determined in the same manner as retirement benefits but are payable immediately without an actuarial reduction. Death benefits are a percent of the employee's final average salary.

The annual increase in the amount of the SDRS benefits payable each July 1st is indexed to the consumer price index (CPI) based on SDRS funded status:

- If the SDRS market value funded ratio is 100% or more – 3.1% COLA
- If the SDRS market value funded ratio is 80.0% to 99.9%, index with the CPI
 - 90.0% to 99.9% funded – 2.1% minimum and 2.8% maximum COLA
 - 80.0% to 90.0% funded – 2.1% minimum and 2.4% maximum COLA
- If the SDRS market value funded ratio is less than 80% - 2.1% COLA

All benefits except those depending on the Member's Accumulated Contributions are annually increased by the Cost-of-Living Adjustment.

Contributions:

Employees are required by state statute to contribute 6 percent of their salary to the plan. State statute also requires the employer to contribute an amount equal to the employee's contribution. State statute also requires the employer to make an additional contribution in the amount of 6.2 percent for any compensation exceeding the maximum taxable amount for social security. The Authority's contributions to the SDRS for the fiscal years ended June 30, 2017, 2016 and 2015 was \$595,112, \$573,626, and \$557,420, respectively, equal to the required contributions each year.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

NOTES TO FINANCIAL STATEMENTS (CONTINUED)
JUNE 30, 2017

(6) Retirement/Pension Plan (Continued)

Pension Liabilities (Assets), Pension Expense (Revenue), and Deferred Outflows of Resources and Deferred Inflows of Resources to Pensions:

At June 30, 2016, SDRS is 96.89% funded and accordingly has a net pension liability. The proportionate shares for the Authority of the components of the net pension liability of South Dakota Retirement System, as of June 30, 2016 are as follows:

Proportionate share of pension liability	\$54,553,152
Less Proportionate share of net pension restricted for pension benefits	52,854,959
Proportionate share of net pension liability (asset)	<u>\$ 1,698,193</u> =====

At June 30 2017, the Authority reported a liability (asset) of \$1,698,193 for its proportionate share of the net pension liability (asset). The net pension liability (asset) was measured as of June 30, 2016, and the total pension liability (asset) used to calculate the net pension asset was based on a projection of the Authority's share of contributions to the pension plan relative to the contributions of all participating entities. At June 30, 2016, the Authority's proportion was .50273600% which is a decrease of .0061729% from its proportion measured as of June 30, 2015.

For the year ended June 30, 2017, the Authority recognized pension expense of \$626,515. At June 30, 2017, the Authority reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	<u>Deferred Outflows Of Resources</u>	<u>Deferred Inflows Of Resources</u>
Difference between expected and actual experience.	\$ 591,179	\$ -0-
Changes in assumption.	1,017,137	-0-
Net Difference between projected and actual earnings on pension plan investments.	1,888,964	-0-
Changes in proportion and difference between Authority contributions and proportionate share of contributions.	82,338	-0-
Authority contributions subsequent to the measurement date.	595,112	-0-
TOTAL	<u>\$ 4,174,730</u> =====	<u>\$ -0-</u> =====

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

**NOTES TO FINANCIAL STATEMENTS (CONTINUED)
JUNE 30, 2017**

(6) Retirement/Pension Plan (Continued)

\$595,112 reported as deferred outflow of resources related to pensions resulting from the Authority’s contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the year ending June 30, 2018. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense (revenue) as follows:

Year Ended June 30:	
2018	\$ 974,815
2019	601,967
2020	1,213,586
2021	789,250
TOTAL	<u>\$3,579,618</u> =====

Actuarial Assumptions:

The total pension liability (asset) in the June 30, 2016 actuarial valuation was determined using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	3.25 %
Salary Increases	5.83 % at entry to 3.87 % after 30 years of service
Investment Rate of Return	7.25 % through 2017; 7.50 % thereafter, net of pension plan investment expense

Mortality rates were based on the RP-2000 Employee Mortality Table for males and females, as appropriate.

The actuarial assumptions used in the June 30, 2016 valuation were based on the results of an actuarial experience study for the period July 1, 2005 through June 30, 2011. The mortality assumptions were revised based on an extension of the experience study including mortality experience through June 30, 2013.

Investment portfolio management is the statutory responsibility of the South Dakota Investment Council (SDIC), which may utilize the services of external money managers for management of a portion of the portfolio. SDIC is governed by the Prudent Man Rule (i.e., the council should use the same degree of care as a prudent man). Current SDIC investment policies dictate limits on the percentage of assets invested in various types of vehicles (equities, fixed income securities, real estate, cash, private equity, etc.). The long-term expected rate of return on pension plan investments was determined using a method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighing the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of real rates of return for each major asset class included in the pension plan’s target asset allocation as of June 30, 2016 (see the discussion of the pension plan’s investment policy) are summarized in the following table using geometric means:

<u>Asset Class</u>	<u>Target Allocation</u>	<u>Long-Term Expected Real Rate of Return</u>
Global Equity	58.0%	4.5%
Fixed Income	30.0%	1.8%
Real Estate	10.0%	4.6%
Cash	2.0%	0.7%
Total	<u>100%</u> =====	

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

**NOTES TO FINANCIAL STATEMENTS (CONTINUED)
JUNE 30, 2017**

(6) Retirement/Pension Plan (Concluded)

Discount Rate:

The discount rate used to measure the total pension asset was 7.25 percent through 2017 and 7.50% thereafter. The projection of cash flows used to determine the discount rate assumed that employee contributions will be made at the current contribution rate and that matching employer contributions from will be made at rates equal to the member rate. Based on these assumptions, the pension plan's fiduciary net position was projected to be available to make all future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability (asset).

Sensitivity of liability to changes in the discount rate:

The following presents the Authority's proportionate share of the net pension liability (asset) calculated using the Discount rate of 7.25 percent through 2017 and 7.50 percent thereafter, as well as what the Authority's proportionate Share of the net pension liability (asset) would be if it were calculated using a discount rate that is 1-percentage point lower (6.25/6.50%) or 1-percentage point higher (8.25/8.50%) than the current rate:

	<u>1%</u> <u>Decrease</u>	<u>Current</u> <u>Discount</u> <u>Rate</u>	<u>1%</u> <u>Increase</u>
Authority's proportionate share of the net pension liability (asset)	\$9,503,064	\$1,698,193	\$(4,667,518)

Pension Plan Fiduciary Net Position:

Detailed information about the plan's fiduciary net position is available in the separately issued SDRS financial report.

(7) Risk Management

The Authority is exposed to various risks of loss related to torts; theft of, damage to, and destruction of assets; errors and omissions; injuries to employees; and natural disasters. There were no insurance claims exceeding insurance coverage during the past three years. During the period ended June 30, 2017, the Authority managed its risks as follows:

Building Structure Charges:

The buildings and permanent structures owned by the Authority are not covered by commercial insurance.

Personal Property Insurance:

The Authority purchases insurance for the contents of the administration building from a commercial insurance carrier, however, the contents of the Authority's other buildings are not insured.

Employee Health Insurance:

The Authority purchases health insurance for its employees from a commercial insurance carrier. Settled claims resulting from these risks have not exceeded the liability coverage during the past three years.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

NOTES TO FINANCIAL STATEMENTS (CONTINUED) JUNE 30, 2017

(7) Risk Management (Continued)

Liability Insurance:

The Authority purchases liability insurance for risks related to torts, theft or damage of property, errors and omissions of public officials, employee practices liability coverage, and professional engineers' coverage through its participation in the South Dakota Authority Captive Insurance Company, a component unit of the State of South Dakota. Additional liability coverage including environmental liability is purchased from commercial insurance carriers. Settled claims resulting from these risks have not exceeded the liability coverage during the past three years.

Worker's Compensation:

At the policy renewal date of 06/01/17 the Authority continues to purchase workmen's compensation through the South Dakota Worker's Compensation Insurance Plan. Settled claims resulting from these risks have not exceeded the liability coverage during the past three years.

Unemployment Benefits:

The Authority provides coverage for unemployment benefits by paying into the Unemployment Compensation Fund established by state law and managed by the State of South Dakota.

(8) Significant Commitments, Contracts, and Subsequent Events

On December 23, 2009, the Authority received \$20,000,000 designated as Sanford Gift No.2. Gift No.2 was originally established for the Sanford Center for Science Education. Two amendments to the Homestake Gift Agreement were signed in June 2010 and October 2011, respectively, whereby it was agreed to use \$15 million of this \$20 million for the purpose of infrastructure and safety upgrades at the Underground Davis Campus and for replacing steel and other rehabilitation of the Ross Shaft. In early August, 2012, the Authority signed a third amendment to the Gift Agreement and received the remaining \$15 million of Gift No.2 called for by Section 2 of the Gift Agreement. The Gift No.2 balance of \$20 million was to be held in a restricted fund whereby the principal was not to be expended until a written approval of a business and operational plan for the Sanford Center for Science Education was received from Mr. Sanford. Furthermore, the third amendment allowed the Authority to utilize and expend interest and other earnings on Gift No.2 restricted funds. In May, 2013, the Authority signed a fourth amendment to the Gift Agreement whereby it was agreed to expend up to \$7,000,000 of Gift No.2 for the construction or remodeling of the Yates Dry Building (located at SURF), the remodeling or replacement of the Lead Homestake Visitor's Center and the remodeling of Jonas Hall (located on the campus of Black Hills State University in Spearfish, SD). This authorization was conditioned on the Authority raising \$1.5 million from other sources for the Black Hills State University project and \$1 million for the Sanford Lab Homestake Visitor's Center in Lead. The Authority secured a \$2 million Future Fund grant from the State of South Dakota in October 2013 and an additional \$500,000 was received in July 2014 from Great Plains Education Foundation that satisfies this monetary obligation. Both outside facilities agreed in writing to incorporate and use the name "Sanford" in the naming of the facilities. Operating agreements are in place which reasonably provide for the ongoing operations of the respective facilities by the Homestake Visitor Center, Inc. and Black Hills State University. Given the construction budget of the (SLHVC) and the Jonas Science Building renovation costs, it was not possible to undertake the upgrades to the Yates Dry. These details were reported in the Fifth Amendment to the Homestake Gift Agreement in February 2015. Furthermore, any part of Gift No.2 not used for the three construction projects may be used for the construction and operation of additional underground laboratory space at SURF to accommodate other experiments, and for related infrastructure to access or support the new laboratory space through the shafts. After the above projects were finished, approximately \$1,000,000 remained. On June 23, 2016 the sixth amendment was signed allowing the Authority to use the remaining funds to purchase real estate known as "Ellison Hill" and to conduct needed environmental assessments and remediation of the property. This will provide needed storage and

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

NOTES TO FINANCIAL STATEMENTS (CONTINUED) JUNE 30, 2017

(8) Significant Commitments, Contracts, and Subsequent Events (Continued)

construction material laydown space for the (LBNG) and (DUNE) projects. The “Ellison Hill” property was purchased in May 2017. A contract with Horsley Specialties, Inc. was executed in May 2017 for \$357,144 for the asbestos removal. The cost of this remediation will be shared equally by the Authority and Homestake Mining Company per the purchase agreement. With additional change orders, the contract amount was decreased to \$327,144. Remediation of the property is scheduled to be complete in December 2017 and will likely deplete the remaining Gift No. 2 funds.

In February 2010, the Authority entered into a contract with AmWest, Inc. – Hydro Resources in the amount of \$1,540,000 for the installation and maintenance of a deep level pump system. Subsequent change orders increased the contract amount to \$1,782,500 and extended the date through December 31, 2011. Another change order signed in May 2012 increased the contract amount to \$4,482,500 with a period of performance through December 31, 2017. The leased pump system is designed to dewater the mine from approximately the 5000’ level to approximately the 7800’ level. With the current vision of the DOE to not develop science laboratories past the 4850’ level, the scope of this contract has been revised. Further negotiations with AmWest, Inc. resulted in the signing of another addendum to the contract effective January 1, 2013. This addendum reduced the monthly lease charges by \$2,500 per month for the years of 2013 to the end of the lease, tentatively July 31, 2018, resulting in an overall savings of \$150,000. Additionally, the agreement calls for the leased property to become the property of the lessee at the end of the lease without any additional payment. It will then become the property of the Federal Government as these capital asset-type costs are being charged direct to the subcontract with LBNL.

A contract was signed in early January 2014 with the South Dakota School of Mines and Technology (SDSM&T) to be the lead institution for the accelerator project known as (CASPAR) Compact Acceleration System Performing Astrophysical Research. With an additional change order the contract total is \$999,334 and extends into fiscal year 2018. This project is located in the new Ross Campus laboratory at the 4850’ Level. Another underground facility was completed as a laboratory for Black Hills State University to support low background counting activities, biology study workstations, and other future small-scale experiments. Contracts have been signed with both institutions whereby each will pay the Authority for reasonable energy costs and any other specific needed supplies.

The Authority’s long term cooperative agreement with Homestake Mining Company of California continues. The Authority agrees to combine Homestake’s wastewater from Grizzly Gulch with the mine wastewater, as well as treat, and discharge the water. For the first year of this agreement, Homestake agreed to pay the Authority an amount ranging from \$.58 to \$.84 per 1000 gallons based on average total gallons treated per minute per month. Revenue from this agreement for the past two years was \$206,036 and \$147,832 respectively. Revenue was lower this last year due to the number of gallons treated being lower. This negotiated treatment price will be renegotiated once per year for the length of the contract. The negotiated price was renewed for the current year. Estimated revenues for the upcoming year are at \$168,000; somewhat higher than last year’s actual due to increasing Homestake water to be treated. The term of the contract runs to September 30, 2020.

A lease between the Authority and Department of Energy (DOE) for land (above ground) and space (underground) for the Long Baseline Neutrino Facility (LBNF) was signed on March 29, 2016. The term of the lease goes through April 30, 2036, but shall remain in force thereafter from year to year without further notice, but shall in no event extend beyond a total of 65 years. An easement was signed with Homestake Mining Company for the construction and maintenance of conveyor facilities for the transportation of excavated rock to the Open Cut (open mine pit) owned by Homestake. The Long Baseline Neutrino Facility will include a large experimental facility underground at the 4850’L. Waste rock excavated from that level will be deposited into the Open Cut. An additional easement was negotiated with the City of Lead across their property to construct, maintain, and operate this overhead conveyance system.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

NOTES TO FINANCIAL STATEMENTS (CONTINUED) JUNE 30, 2017

(8) Significant Commitments, Contracts, and Subsequent Events (Continued)

The Authority, along with the South Dakota Bureau of Administration, and five additional South Dakota Authorities signed a Joint Powers Agreement on June 1, 2015 to form a captive insurance company to insure against certain risks. \$2,500,000 was repurposed in August 2015 from a portion of the \$10,000,000 Indemnification Fund held by the Authority. The original Appropriation Act for the indemnification fund that was made by the State Legislature in 2004 was included as a part of the agreement between Homestake Mining Company and the Authority.

Homestake Mining Company agreed with the signing of the Third Amendment to the Property Donation Agreement in August 2015 to release \$2,500,000 from the Indemnification Fund for the Authority to fund the captive insurance company. The Act from 2004 was revised by the State Legislature per Legislative Session 2015 HB 1186, to allow the use of up to \$2,500,000 to be used to provide initial capital and pay expenses for the Authority's purposes in the captive insurance company.

Letter Agreement #1586 was signed in August 2015 between the Governor's Office of Economic Development (GOED) and the Authority whereby the State is granting up to \$6,000,000 between July 14, 2015 and September 30, 2018. The State has chosen to engage in a partnership with the Authority, the South Dakota Community Foundation, the South Dakota State University Foundation, and the University of South Dakota Foundation to assist with the costs of infrastructure/laboratory upgrades, procurement of xenon for future "Dark Matter" experiments, and interest payments to these foundations. The full \$6,000,000 has been received from the State as well as \$2,000,000 from the South Dakota Community Foundation, and \$1,000,000 each from the University of South Dakota Foundation and the South Dakota State University Foundation. Loan agreements are in place between the Authority and the three foundations for a total of \$6,000,000 to be used for the purchase of xenon for the future LZ experiment. The loans extend to the last quarter of 2026. They are unsecured nonrecourse loans with 2.5% simple interest to be paid quarterly to each lender. The loans will be repaid at the end of the LZ experiment (approximately October 2026) from the sale proceeds of the xenon previously purchased. Purchase orders for xenon have been issued for an additional 700,000 liters at a total price of \$3,869,234 with Praxair Distribution and Baosteel Gases.

(9) Construction Work in Process

The Authority accumulates the costs of construction projects in Construction Work in Progress until such time as the projects are completed and/or placed in service. Some of the ongoing improvement projects are capitalized as they progress. The \$19,797,453 of construction work in progress at June 30, 2017, consisted of \$17,665,235 of accumulated costs for the Ross Shaft rehabilitation project, \$915,139 for the CASPAR experiment development, \$1,190,700 for LZ facility upgrades, and \$26,379 for the Ellison asbestos assessment and abatement project. The costs accumulated consist of amounts under contract in addition to materials and other expenses purchased by the Authority. The remaining commitment on existing contracts at June 30, 2017 is approximately \$4,697,723. These commitments are to be paid for using current funds that have been redirected from the Sanford Gift #2 as well as the \$12,000,000 funding for the LZ infrastructure/laboratory upgrades, and xenon procurement.

(10) Continuing Operations

The DOE's 2018 budget proposal includes approximately \$14.6 million to fund basic operations at the Sanford Lab. This basic operations funding transitioned to Fermi National Accelerator Laboratory (FNAL). Further negotiations are in process for extension through FY2018 as well as a five-year contract for DOE operations funding. The Ross Shaft rehabilitation project that also transitioned to FNAL will continue until the project is complete. The 2018 budget proposal includes \$4,756,131 for this project. Additionally, Authority support for the LUX/Zeplin experiment engineering support and installation efforts has been extended to September 2018 with a budget of \$1,468,467.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

NOTES TO FINANCIAL STATEMENTS (CONTINUED)
JUNE 30, 2017

(11) Related Party Transactions

Mr. Ron Wheeler was appointed to the Board of Directors by the Governor effective July 1, 2013, and is a current member of the Board of Directors. As of July 1, 2013, Ron Wheeler transitioned from Executive Director to the Director of Governmental & External Affairs for the Authority. Mr. Wheeler was a full-time employee of the Authority until January 3, 2014, at which time he retired from full-time employment. Effective January 3, 2014, the Authority signed a contract with Mr. Wheeler as a consultant for the Authority. The contract, including amendments, is for \$395,000 and extends to January 3, 2019. For the period of July 1, 2016 – June 30, 2017, he was paid \$69,013.13 for his consulting services. Mr. Wheeler will assist in directing the state and federal government affairs programs for the Authority. Furthermore, he will maintain and foster private funding sources for the long-term growth of the facility.

REQUIRED SUPPLEMENTARY INFORMATION OTHER THAN MD&A

SCHEDULE OF PROPORTIONATE SHARE OF THE NET PENSION LIABILITY (ASSET)

South Dakota Retirement System

Last 10 Fiscal Years *

	2017	2016	2015
Authority's proportion of the net pension liability (asset)	0.5027360%	0.5089089%	0.5287996%
Authority's proportionate share of net pension liability (asset)	\$ 1,698,193	\$ (2,158,428)	\$ (3,809,788)
Authority's covered employer payroll	\$ 9,256,007	\$ 9,042,866	\$ 8,888,749
Authority's proportionate share of the net pension liability (asset) as a percentage of its covered-employee payroll	18.35%	23.87%	42.86%
Plan fiduciary net position as a percentage of the total pension liability (asset)	96.89%	104.10%	107.00%

* The amounts presented for each fiscal year were determined as of the measurement date of the collective net pension liability (asset) which is 6/30 of previous fiscal year. Until a full 10-year trend is compiled, the Authority will present information

SCHEDULE OF THE AUTHORITY CONTRIBUTIONS

South Dakota Retirement System

Last 10 Fiscal Years

	<u>2017</u>	<u>2016</u>	<u>2015</u>
Contractually required contribution	\$ 595,112	\$ 573,626	\$ 557,420
Contributions in relation to the contractually required contribution	<u>\$ 595,112</u>	<u>\$ 573,626</u>	<u>\$ 557,420</u>
Contribution deficiency (excess)	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
Authority's covered-employee payroll	\$ 9,596,007	\$ 9,256,007	\$ 9,042,866
Contributions as a percentage of covered-employee payroll	6.20%	6.20%	6.16%

* Until a full 10-year trend is compiled, the Authority will present information for those years for which information is available.

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY
NOTES TO THE REQUIRED SUPPLEMENTARY INFORMATION
Schedule of the Proportionate Share of the Net Pension Liability (Asset) and
Schedule of the Authority Contributions.

Changes of benefit terms:

No significant changes.

Changes of assumptions:

No significant changes.

SUPPLEMENTARY INFORMATION

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

**SCHEDULE OF OPERATING EXPENSES
FOR THE YEAR ENDED JUNE 30, 2017**

Personal Services	
Employee Salaries	\$ 8,688,403
Employee Benefits	5,005,249
Total Personal Services	13,693,652
Travel	
Meals and Lodging	51,738
Auto and Fleet Services	37,026
Air - Commercial and Charter	38,145
Incidentals to Travel	3,580
Non-Employee Travel	51,963
Meals (Not Overnight)	127
Total Travel	182,579
Contractual Services	
Equipment Rental	104,578
Contractual - Other	5,477,254
Insurance	410,873
Lobbying	215,000
Computer Services	299,924
Telecommunications	48,121
Monitoring and Programming	76,311
Legal Consultant	109,976
Training	19,612
Consultant Fees - Accounting and Auditing	13,120
Promotion and Advancement	16,413
Dues and Memberships	3,226
Utilities	2,188,775
Maintenance and Repairs	1,115,762
Total Contractual Services	10,098,945
Supplies, Materials and Other Operating Expenses	
Maintenance and Repairs	1,380,404
Other Supplies and Equipment	1,096,983
Other Expenses	4,122
Office Supplies and Equipment	20,444
Safety	364
Licenses and Permits	40,011
Workshop and Registration Fees	17,442
Postage	4,033
Bank Charges	690
Total Supplies, Materials and Other Operating Expenses	2,564,493
Amortization Expense	137,752
Depreciation Expense	1,957,886
Total Operating Expenses	\$ 28,635,307

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

**SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2017**

	Pass-Through Numbers	CFDA Numbers	Amount
<i>U.S. Department of Energy</i>			
Pass-Through the Regents of the University of California LUX (Large Underground Xenon) Research & Development	6973786	81.6973786	\$ 194,896
<i>U.S. Department of Energy</i>			
Pass-Through the Regents of the University of California SURF (Sanford Underground Research Facility) Operations Support	6994297	81.6994297	5,474,402
<i>U.S. Department of Energy</i>			
Pass-Through the Regents of the University of California LUX/Zeplin (LZ) Cryogenic System Integration and Installation	7255146	81.7255146	917,425
<i>U.S. Department of Energy</i>			
Pass-Through the Regents of the University of California SURF (Sanford Underground Research Facility) Ross Shaft Rehab	7262800	81.7262800	3,671,379
<i>U.S. Department of Energy</i>			
Pass-Through the Regents of the University of California LBNL Kismet Project	7289931	81.7289931	74,285
<i>U.S. Department of Energy</i>			
Pass-Through Oak Ridge National Laboratory Experiment Support for Majorana Demonstrator	4000144149	81.4000144149	20,175
<i>U.S. Department of Energy</i>			
Pass-Through Fermi National Accelerator Laboratory (Note 3) SURF (Sanford Underground Research Facility) Operations Support	629760	81.629760	9,560,663
<i>U.S. Department of Energy</i>			
Pass-Through Fermi National Accelerator Laboratory (Note 3) SURF (Sanford Underground Research Facility) Ross Shaft Rehab	630223	81.630223	2,984,691
<i>U.S. Department of Energy</i>			
Pass-Through RESPEC R & D Rock Melt Sealing Tests	02703A	81.02703A	114,102
<i>National Science Foundation:</i>			
Pass-Through South Dakota School of Mines & Technology Mathematical and Physical Sciences Research Grant	PHY-1615197	47.049	20,650
<i>U.S. General Services Administration:</i>			
Pass-Through South Dakota Federal Property Agency (Note 4)	-	39.003	<u>5</u>
Total			<u><u>\$ 23,032,673</u></u>

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

**NOTES TO SCHEDULE OF EXPENDITURE OF FEDERAL AWARDS
JUNE 30, 2017**

Note 1: *Basis of Presentation*

The accompanying Schedule of Expenditures of Federal Awards (the "Schedule") includes the federal award activity of the Authority under programs of the federal government for the year ended June 30, 2017. The information in this Schedule is presented in accordance with the requirements of Title 2 U.S. Code of Federal Regulations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance). Because the Schedule presents only a selected portion of the operations of the Authority, it is not intended to and does not present the financial position, changes in net position, or cash flows of the Authority.

Note 2: *Summary of Significant Accounting Policies*

Expenditures reported on the Schedule are reported on the cash basis of accounting. Such expenditures are recognized following the cost principles contained in the Uniform Guidance, wherein certain types of expenditures are not allowable or are limited as to reimbursement. Negative amounts shown on the Schedule represent adjustments or credits made in the normal course of business to amounts reported as expenditures in prior years. The Authority has elected not to use the 10-percent indirect cost rate as allowed under the Uniform Guidance

Note 3: *Major Federal Financial Assistance Program*

This represents a Major Federal Financial Assistance Program.

Note 4: *Federal Surplus Property*

The amount reported represents 23.3% of the original acquisition cost of the federal surplus property received by the Authority.